V5.0 for DLP+ HyBoost

[User Manual V1.4]

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Introduction

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[Remark]
The social security numbers on the UI screens included in the Manual are fabricated numbers for the purpose of providing realistic examples.

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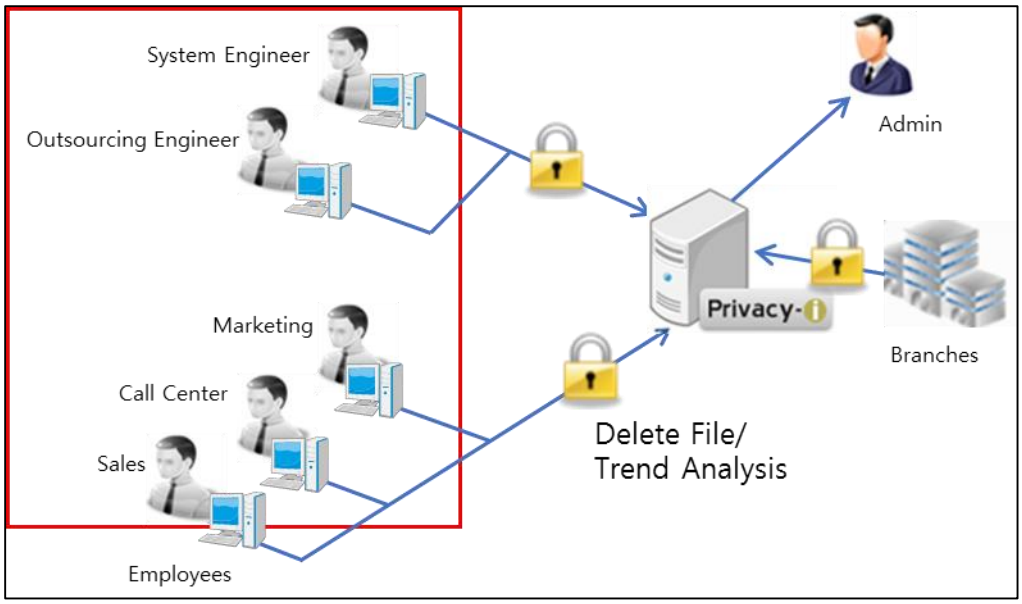
1. Data Control Solutions, Privacy-i

1.1 Outline

A data control solution, "Privacy-i", is a tool that automatically protects and searches for data on a PC, which is designated to be deleted according to current laws, and helps employees delete the data by themselves. Under current laws, data will be strictly managed as follows, and individuals and companies will be punished by law in the event of any violation.



(Figure 1-1) Privacy-i Data Protection System

1.2 Privacy-i Agent Installation/Operation Requirements

Please refer to [Table 1-2] for the correct operating system version on which to install the Server,

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Administration Console and Agent.

[Table 1-1] Operating Systems Compatible with Privacy-i

Operating System	Version
Windows	Windows 7 (x86/x64) Edition - Home Premium - Professional - Ultimate - Enterprise Windows 8 (x86/x64) Windows 8 Pro (x86/x64) Windows 8 Enterprise (x86/x64)

※ MS Windows Server Family is supported by "Server-i".

The minimum requirements to install the agent on your PC are as follows (see [Table 1-2]).

[Table 1-2] Privacy-i Hardware Requirements

Category	Hardware and Software Requirements	
Privacy-i Agent	CPU	Intel Core 2 1.6Ghz
	RAM	1 GB
	HDD	3 GB+ Free space
	NIC	10/100/1000 Ethernet

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1.3 Product Information

1.3.1 First Release Date: March 25, 2015.

2. Installing / Uninstalling Privacy-i Agent

2.1 Installing Privacy-i Agent

Privacy-i
SPECIALIZED ENTERPRISE IN
DLP, PRIVACY PROTECTION, E-DISCOVERY
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Privacy-i v5.0 Agent Install
Privacy-i
Specialized Enterprise in
DLP, Privacy Protection, E-discovery
Welcome to the Privacy-i v5.0 Setup Wizard
This wizard will guide you through the installation of Privacy-i v5.0.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

(Figure 2-1) Privacy-i Agent Setup Screen

① Run the Privacy-i Agent installation package to begin installing (see Figure 2-1).

② To install Privacy-i Agent, check the license agreement and click the [I Agree] button to continue installation.

③ Wait until installation completes in the Privacy-i Agent installation progress window.

④ When installation of Privacy-i Agent is complete, click the [Finish] button and reboot your PC.

2.2 Uninstalling Privacy-i Agent

① Privacy-i Agent cannot be arbitrarily uninstalled by a user. If the Privacy-i Agent on a user PC needs to be uninstalled, send the generated serial number (Figure 2-2) to the security admin who operates Privacy-i at your company, and enter the issued password to uninstall.

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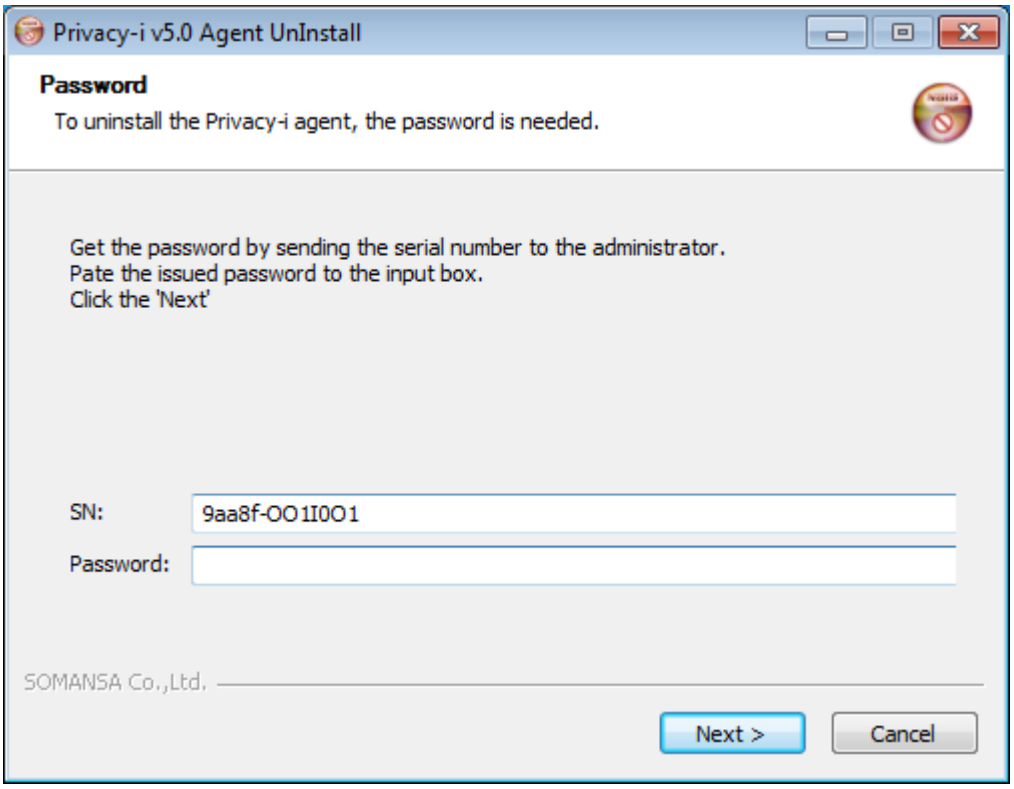

(Figure 2-1) Privacy-i Agent Uninstallation Screen

3. Running Privacy-i Agent

3.1 How to Run Privacy-i Agent

There are 3 ways to run Privacy-i Agent.

[Table 3-1] Details on How to Run Privacy-i

Category	Attribute	Description
How to Run	Shortcut	Use the Privacy-i Agent shortcut on the **[desktop].**

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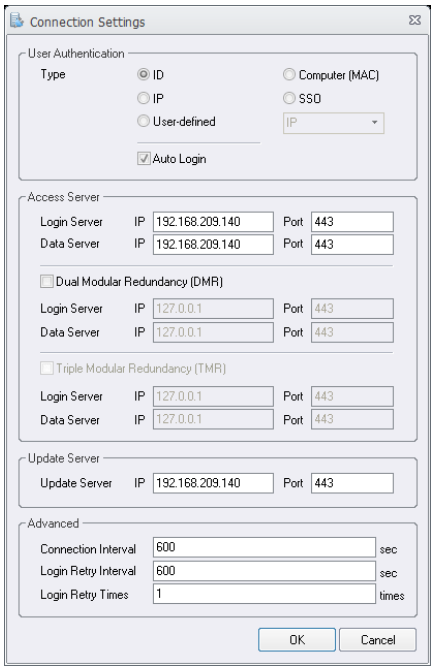
Privacy-i	Starting program	Use the Privacy-i Agent menu on the **[Start]-[Program].**
	Taskbar	Right-click the Privacy-i Agent icon on the **[Taskbar]-[Notification].**

3.2 Privacy-i Agent Connection Settings

Privacy-i Agent will run when connected to a server. Therefore, the Authentication Method and IP address information of the server are needed to connect to it.



(Figure 3-1) Connection Settings

3.2.1 User Authentication Settings

The Authentication Method of the agent installed on a user PC is divided into 5 categories according to the Admin Policy.

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[Table 3-2] Detailed Options of User Authentication Settings

Category	Authentication Method	Description
User Authentication Settings	ID/PW-based authentication	Log in by entering your ID and Password. Check auto-login to login automatically next time. ※ However, a user ID must be registered on the server.
	MAC-based authentication	Log in based on the MAC address of a user PC.
	IP-based authentication	Log in based on the IP address of a user PC.
	SSO-based authentication	Log in based on the single sign-on (SSO) of a user PC.
	User definition-based authentication	When there is no user information, log into the Privacy-i server without identification and authentication by selecting either the IP, GUID and SSO of a PC.

3.2.2 Server Connection Settings / Update Server Settings

Server Connection Settings are categorized into Login Server and Data Server. To configure Server Redundancy, select Server Redundancy and set the IP and Port. Also, configure the Update Server.

[Table 3-3] Options for Server Connection Settings

Category	Attribute	Description	Remark
Server Connection Settings	Login Server	Configures user authentication server IP and port	IP range : 0.0.0.0 ~ 255.255.255.255 Port range : 1 ~ 65535
	Data Server	Configures data transfer server IP and port	
	Dual Modular Redundancy	Configures server IP and port for redundancy	
	Update Server	Configures update server IP and port	

3.2.3 Advanced Settings

To connect to the server from a user PC, set up Server Connection Interval, Login Retry

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Interval when Failing to Login, Number of Retries, etc. in the Advanced Settings.

[Table 3-4] Options for Advanced Settings

Category	Attribute	Description	Remark
Advanced Settings	Server Connection Interval	Configures communication interval with the server	Default: 600 seconds
	Login Retry Interval	Retry interval when failing to log in on the server	Default: 800 seconds
	Login Retry Times	Number of retries when failing to log in on the server	Default: 3 times

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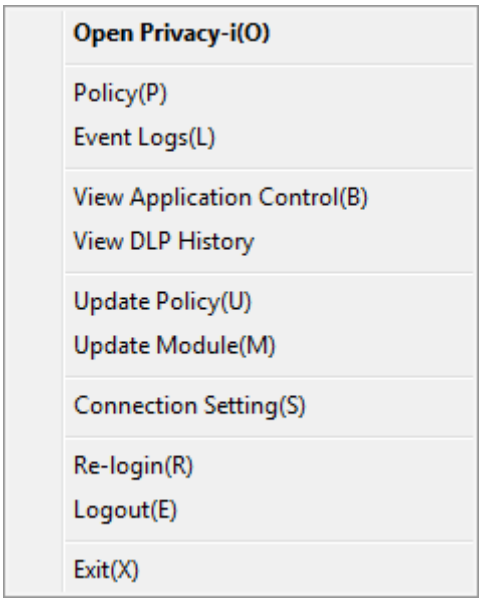
4. Configuring Privacy-i Agent

4.1 Privacy-i Agent Menu



(Figure 4-1) Privacy-i Agent Menu

The Privacy-i Agent menu can be viewed by right-clicking the Privacy-i Agent icon in the [Taskbar]-[Notification]. Please refer to [Table 4-1] for a description.

[Table 4-1] Privacy-i Agent Menu Description

Category	Function	Description
Drive	Open Privacy-i	Runs the Privacy-i Agent program.
View Log	Policy	Checks policy information applied to Privacy-i Agent.
	Event Logs	Checks the Event Log of Privacy-i Agent.
View DLP Information	View Application Control	Displays the process list blocked by admin settings.
	View DLP History	Displays the data leakage control history.
Update	Update Policy	Updates applied policy for a user PC from the server.

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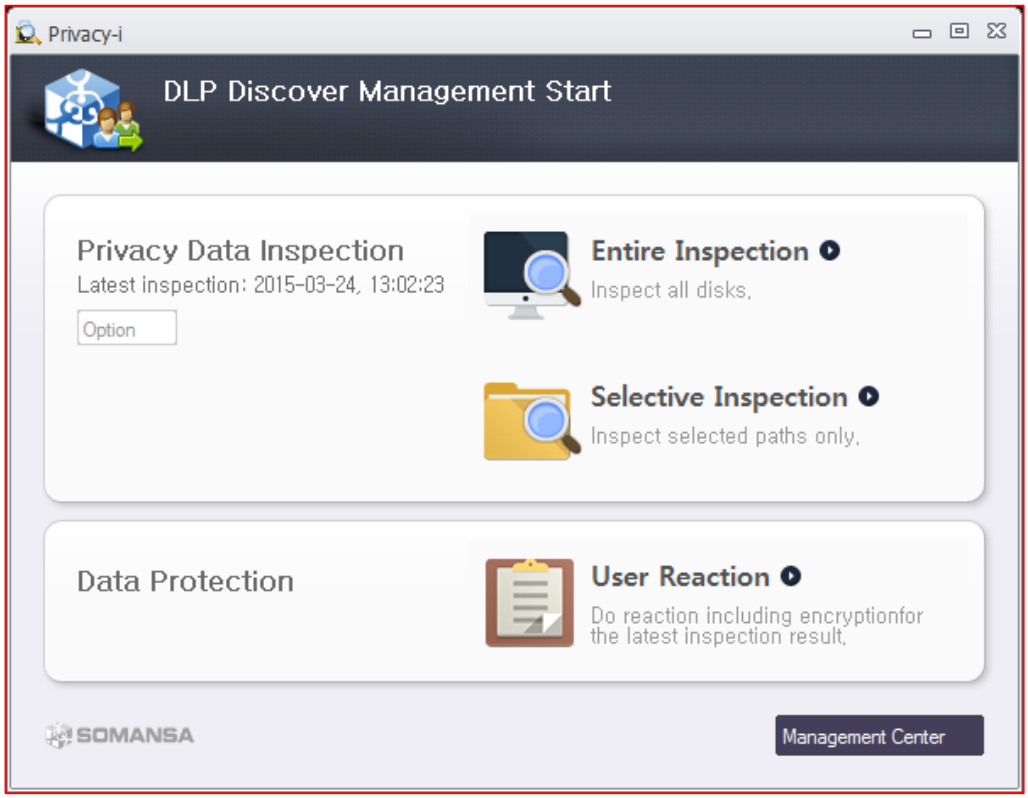
	Update Module	Checks the module update history from the Privacy-i server.
Settings	Connection Settings	Configures the information for connecting to the Privacy-i server.

4.1.1 Open Privacy-i (O)

Run [Open Privacy-i (O)] in the Privacy-i Agent menu to operate Privacy-i.



(Figure 4-2) Simple Inspection Function Screen When Running Privacy-i Agent

[Table 4-2] Privacy-i Agent Menu Description

Category	Function	Description
Data Inspection	Entire Inspection	Inspect data on all local disks
	Selective Inspection	Inspect data after selecting an area to inspect
	Option	Go to Inspection Option Settings
Data Protection	User Reaction	Run reactions after viewing the Latest Inspection Results
	Management	Go to the Data Integrated Management Center

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	Center	screen.

4.1.2 Policy (P)

Currently Applied User Policy Information/ Scheduled Task List/ Connected Server Information/ Program Information Status can be viewed.

[Table 4-3] Detailed Attributes of View Policy

Category	Attribute	Description
User Information	User ID	Display user ID.
	User Name	Display user name.
Discover Information	Discover Policy Name	Display the Discover Inspection Policy name specified by the Admin.
Registered Scheduled Task List	Registered Scheduled Task List	Display the scheduled task to run Privacy-i inspection.
Connected Server Information	Privacy-i Server	Display login connecting information on the Privacy-i server.
DLP Information	DLP Status	Display the specified Data Leakage Control Policy list.
Program Information	Program Information	Display the product version of the main process.

4.1.3 Event Log (L)

The Login/Logout Time of Privacy-i Agent User PC(s), Policy Update History, and Module Update List can be viewed.

4.1.4 View Application Control (B)

If a blocked program of the Data Leakage Control Policy is specified in a user PC, it can be viewed in the Blocked Program List.

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4.1.5 View DLP History (C)

The Request Date, File Name and Control Status Information List can be viewed in accordance with Data Leakage Control History.

4.1.6 Update Policy

If the Policy of the Privacy-i Agent user PC is set up on the server, it can be updated through the [Policy Update]. (By default, it automatically updates the Policy through Update Cycle Settings upon logging in.)

4.1.7 Update Module

Patches the file after confirming the Privacy-i Agent Module Update History from the Update Server. (By default, the Module is automatically updated upon logging in.)

4.1.8 Connection Settings

Privacy-i Agent must be connected to the Privacy-i server to run. Therefore, Privacy-i Agent provides a variety of authentication methods, and requires information such as Authentication Method selection and server IP address.

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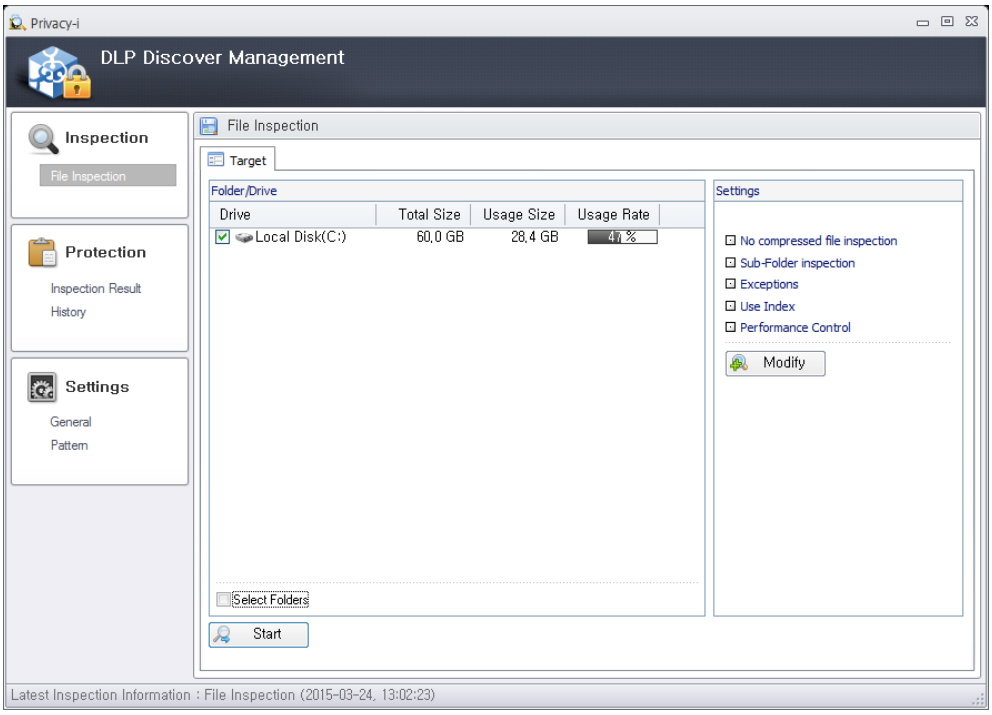
5. Configuring Privacy-i

5.1 Inspection

5.1.1 File Inspection

Inspects files on a PC, based on the Data Pattern specified by a user.



(Figure 5-1) Privacy-i Agent File Inspection

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5.1.2 Selected Folder Inspection

Check "**Select Folders**" under the Privacy-i Agent Center to specify folders to be inspected.

5.1.3 Inspection Settings

Select "**Modify**" on the right side of Privacy-i Agent, to go to the [Preferences]-[General Settings] window, and specify File Inspection Settings (File Category, Size, Compressed File Inspection, etc.).

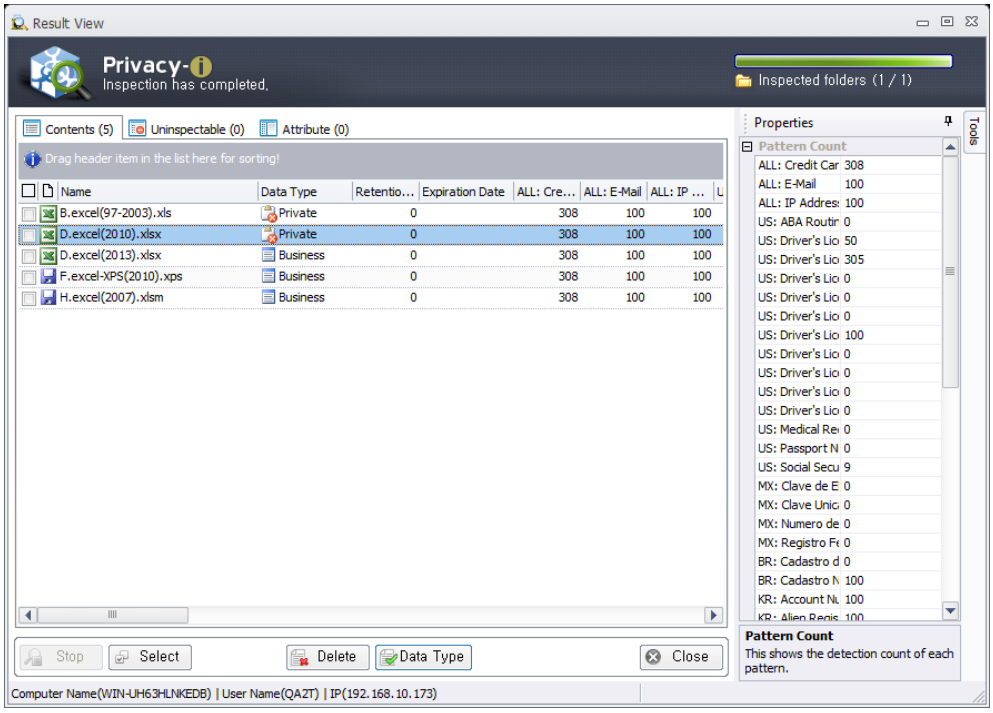
5.1.4 Start Inspection

Select "**Start**" at the bottom of the Privacy-i Agent Center to search data in a PC with Privacy-i Agent installed according to the established Data Search Policy.

5.2 View System Inspection

5.2.1 Inspection Results

Shows Detected Results History after the File Inspection of a user PC.



(Figure 5-2) General Detection History

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5.2.2 Stop Inspection

When conducting File Inspection, a user can stop with the "**Stop**" button. It enables a user to pause or re-run an inspection by using the "Pause/Resume" button which is under a submenu of "Stop Inspection". When the "Stop" button is clicked, it stops the inspection.

5.2.3 Item Selection

To select Detected Results History Files, use menus including "Blocked Item Selection/Deselection" and "Select All/ Deselect/ Reverse Selection"

[Table 5-1] Effective Input Field Range When Connecting the Default Database

Item	Effective Range	Character	Failure Message
Enter Password	9~16	Number	Your Password should have at least 9 characters and contain at least one English uppercase letter/ English lowercase letter/ number/ special character.
Confirm Password	9~16	Number	You must enter your Password. Password is required.

Recommendations

✓ Password should have at least 9 characters and include English letters, numbers and special characters.

5.2.4 Deleting

In the Detected Results History, files can be selected and deleted. Deleted files cannot be recovered.

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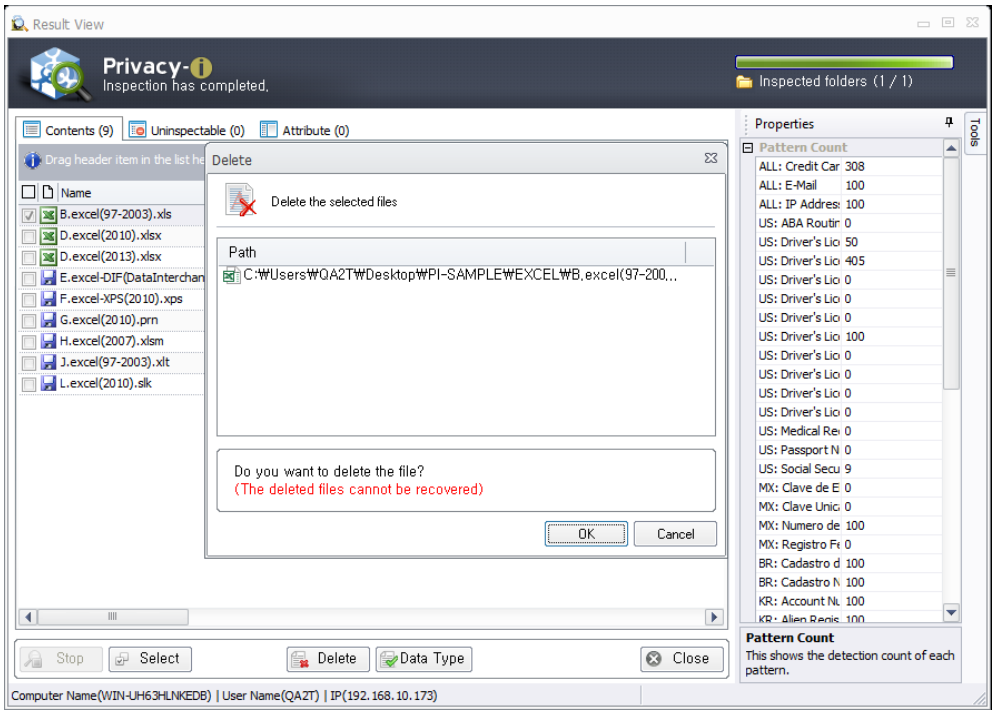

(Figure 5-3) Delete Detected History

5.2.5 Statistics

The statistical number for the entire Detected Results History is displayed by Pattern, File and General/ Compression Statistics. The Information Window appears when clicking the statistics on the "Data" in the "Tools" tab.

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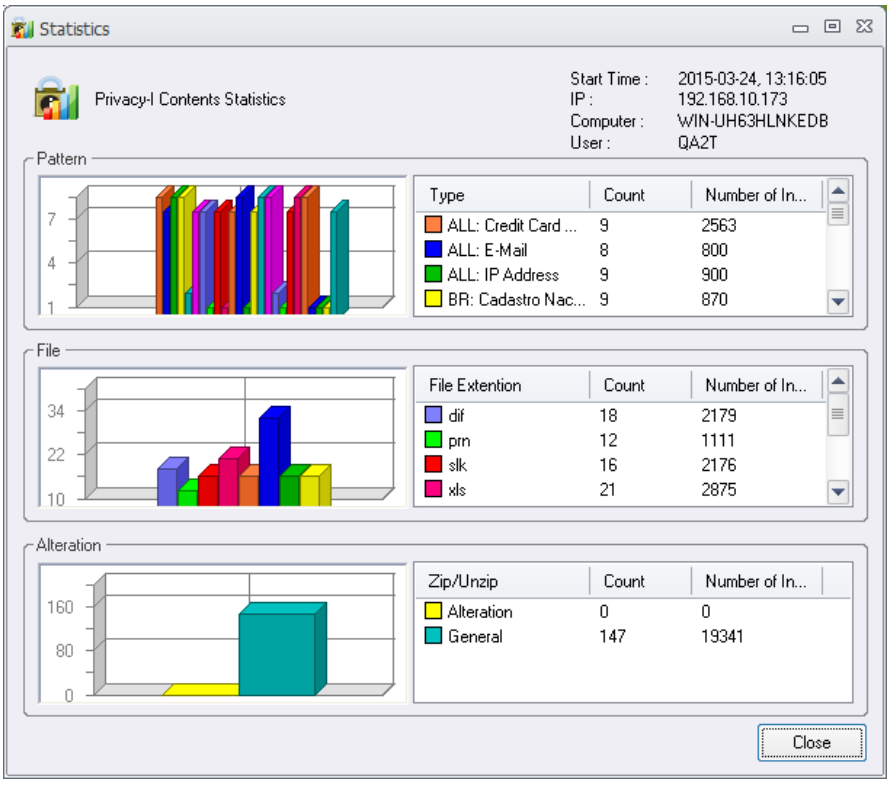

(Figure 5-4) Search Result Statistics

5.2.6 Report

The Detected Results History is generated in a report. The report displays Inspection Information, Statistics by Pattern, Statistics by File and Details of Inspection.

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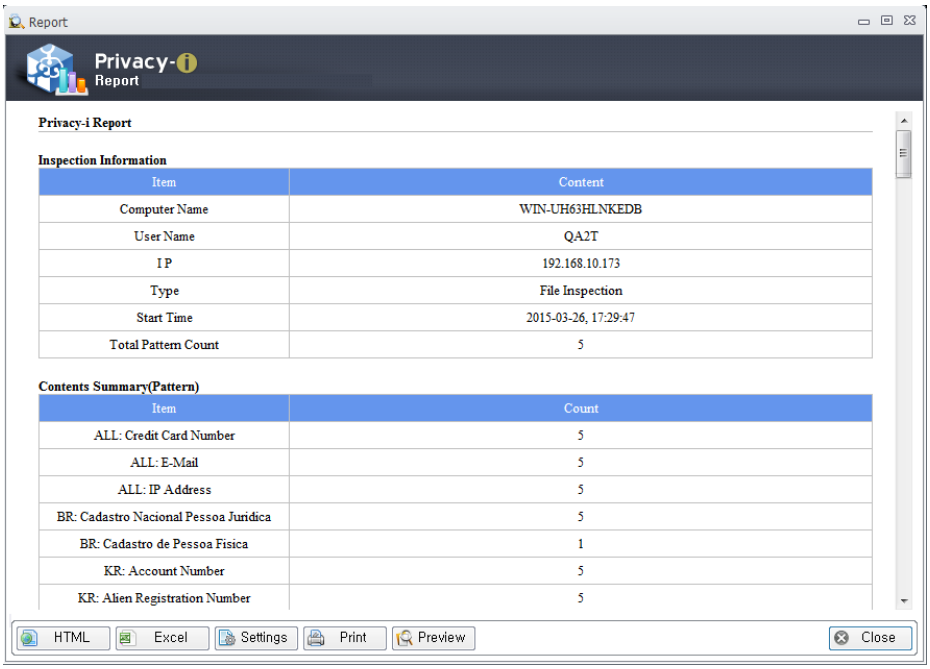

(Figure 5-5) Report

➢ Saving in HTML/ Excel

The Detected Results History generated in a report is saved in HTML/ Excel format.

➢ Settings

Choose which items to display by setting them up in the Detected Results History that is shown in the report.

➢ Print/ Preview

For the Detected Results History shown in the report, Print or Print Preview is provided.

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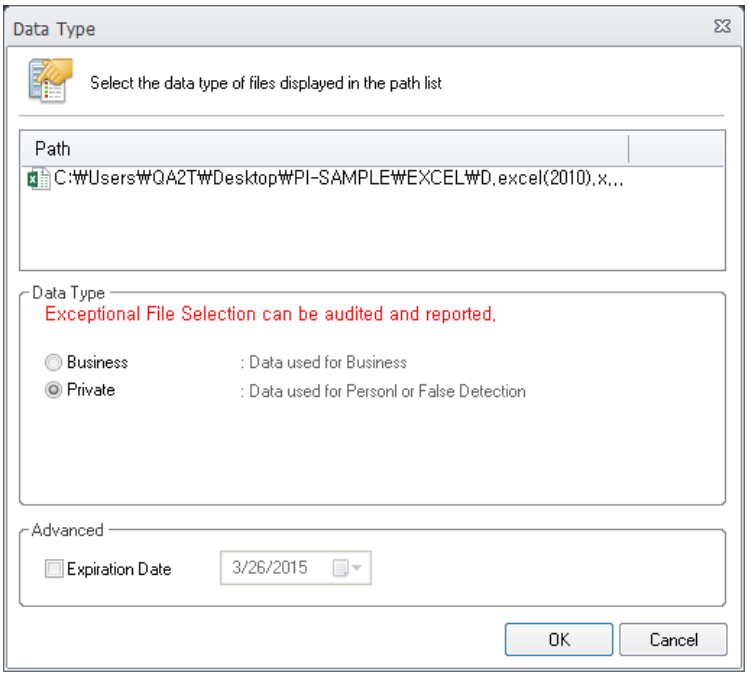
5.2.7 Data Type



(Figure 5-6) Specifying Data Category

The Data Category can be specified for Detected Data Files. In the Data Category, 5 types of information can be specified including "Business" and "Private". In addition, the Valid Date of a data file can be set by inputting the File Expiration Date.

[Table 5-2] Specifying Data Category

Category	Type	Description
Data Category	Business	Data used for Business
	Private	Data used for Personl or False Detection
Advanced Settings	Expiration Date	Proof that the data is necessary for a business by setting the Expiration Date for File Retention.

5.2.8 Quick Info

Quick Info shows the Detected Data Files Results. Quick Info displays the Number of Detections, based on the Pattern Name. The Number of Detections indicates the number

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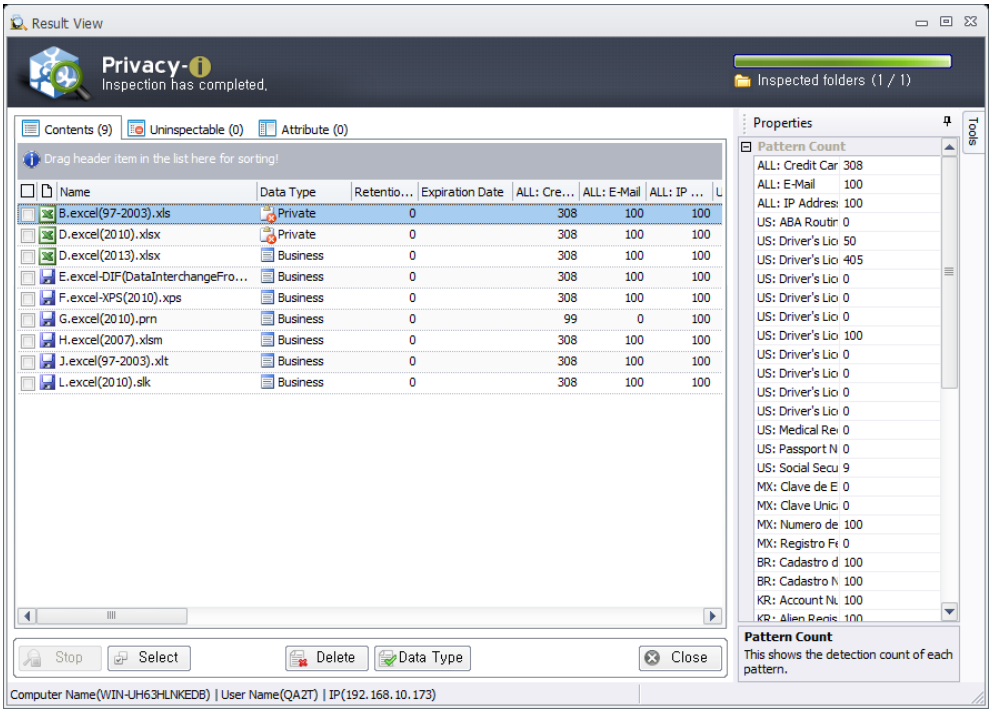
of files that include the pattern. For example, if a single document contains multiple patterns, they are included in the Number of Detections by each pattern.

Example) If a Pattern Name is a social security number, the Number of Detections is 19, and the total number of files including the social security number pattern in the PC is 19.



(Figure 5-7) Quick Info

5.3 View Data Details

In the Detected Data Results List, right click the file to open the menu. The menu includes "View Details", "Open", "View Property", and "Open Folder"

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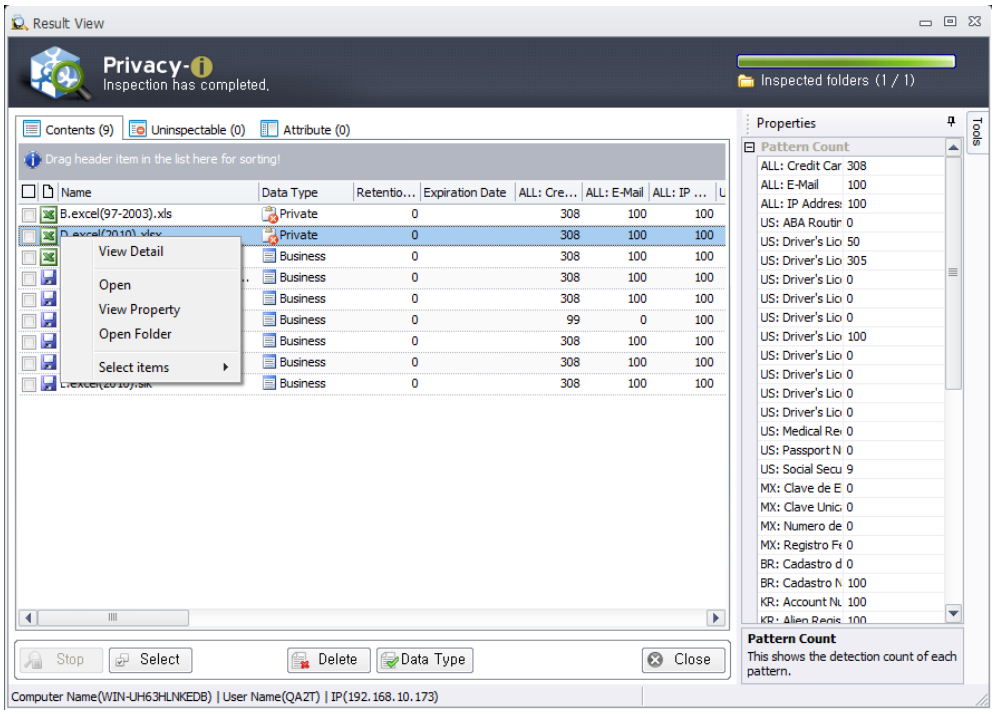
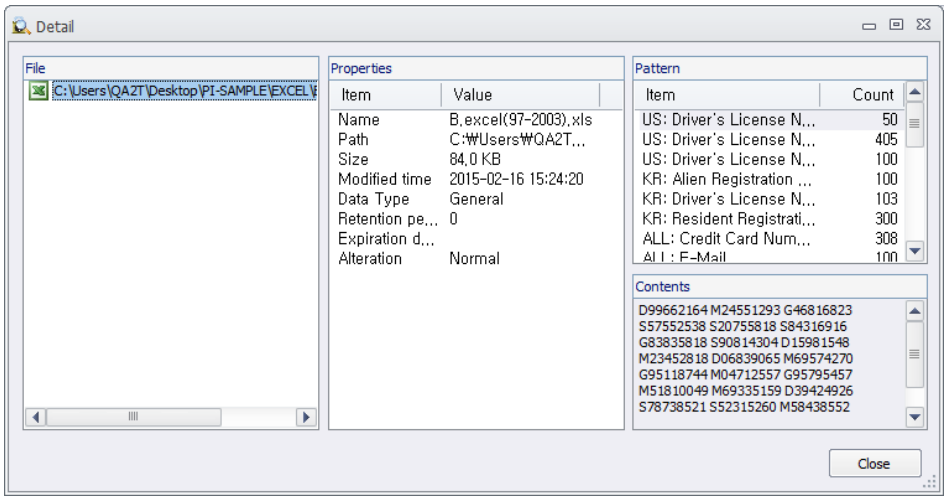


(Figure 5-8) Searching Data Details

5.3.1 View Details

View Detected Content Details of the Detected File displays the File Name, Pattern Name and Pattern Content Defined by the Inspection Policy, Number of Pattern Repeats, and Number of Included Patterns of Actual Data Files. It also displays Detected Data Content extracted from a file. In addition, it highlights the text in Detected History, based on the original file, and shows Detected History.



(Figure 5-9) View Details

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5.3.2 Open

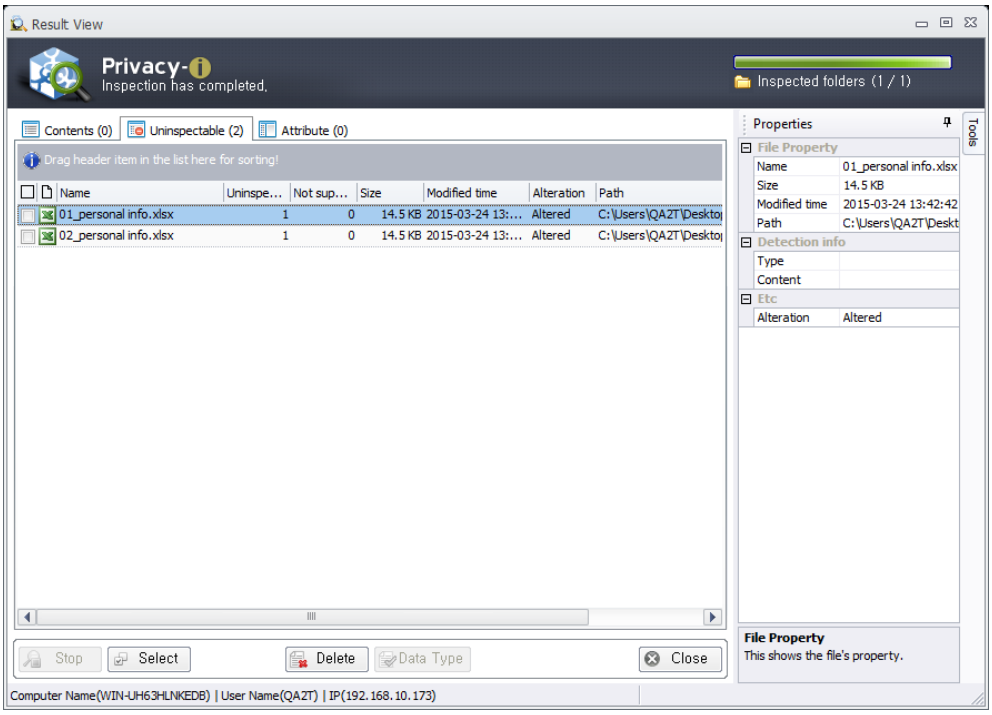
In the Detected Data Result List, open the selected file and view the information with "Open".

5.3.3 View Properties

In the Detected Data Result List, view the File Name, Path, Size, Date Created, Date Modified and Date Accessed with "View Property".

5.4 Uninspectable

Besides general detection, data can be categorized and detected as an "Unknown Data Type" or "Damaged File".



(Figure 5-10) Other Detected Results

5.5 Detecting File Attributes

Detects based on the Attribute-based Setting Pattern in Preferences.

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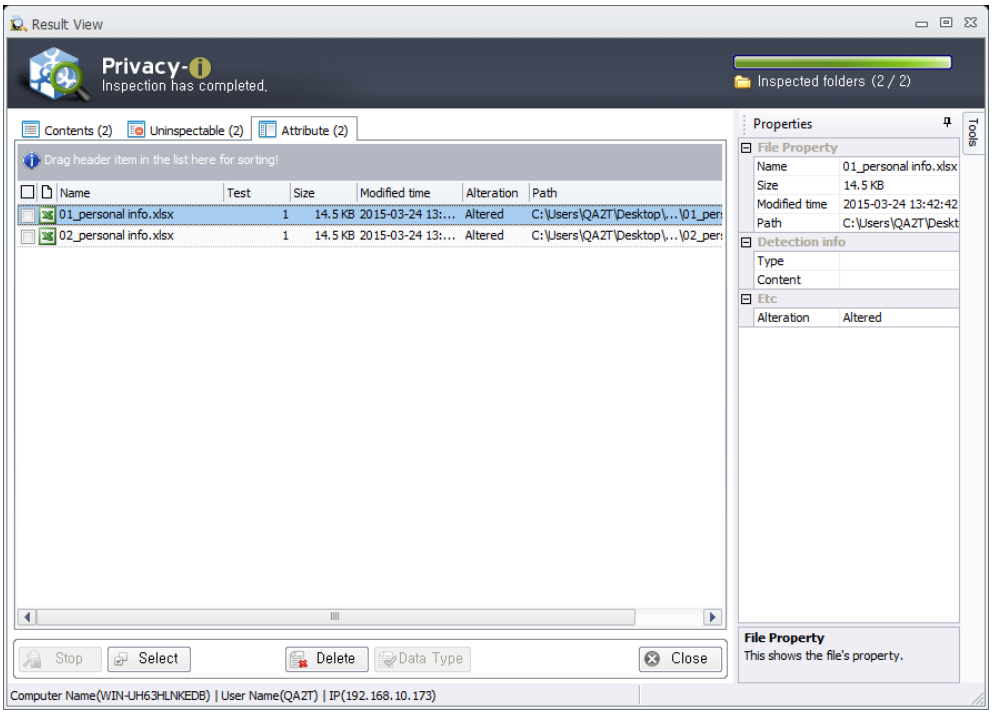

(Figure 5-11) Attribute-based Detection Results

5.5.1 Attribute-based Detection Pattern Settings

Attribute-based Detection Pattern Settings can be added in the [Inspection Pattern]-[Attribute-based Settings]. The pattern to be detected can be set by inputting the Attribute Value including Pattern Expiration Date, File Path, Name, Extension, Date Created, File Size, etc. in Adding Attribute-based Pattern.

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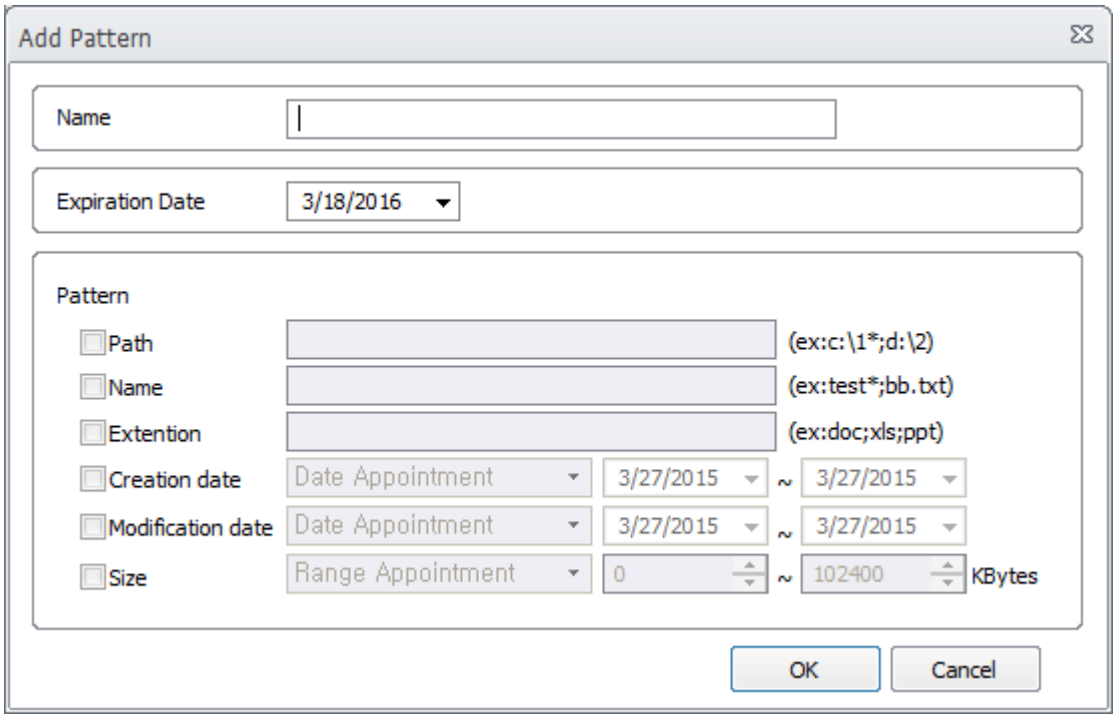

(Figure 5-12) Attribute-based Detection Pattern Settings

5.6 Inspection Results

Privacy-i Agent Data Protection is categorized into Inspection Results, Inspection History and Reaction. It has functions to either Encrypt/Decrypt detected data search results or store data.

5.6.1 View Inspection Results

Displays the most recent inspection result that was found in Privacy-i Client. Files detected in the reaction item can be protected.

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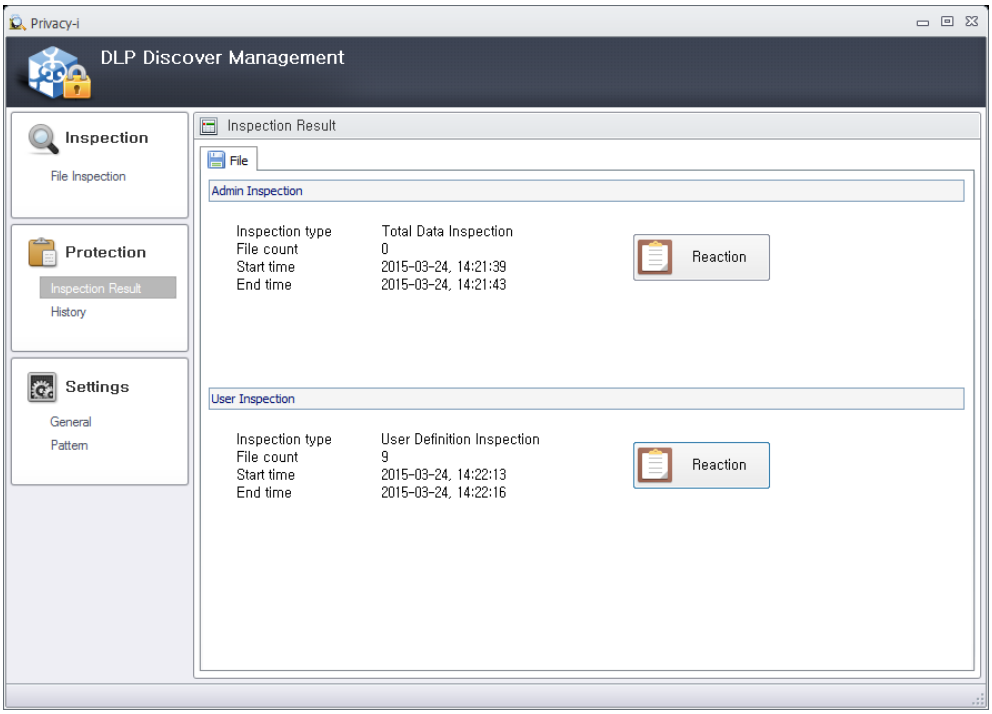

(Figure 5-13) View Inspection Results

Inspection results record the most recent results that were run through Diagnosis by Privacy-i Agent User and Diagnosis by Admin. The Inspection Result List displays Inspection type, Number of Files, Time Started and Time Finished.

5.7 Inspection History

Records File Inspection Results that were found on Privacy-i Agent.

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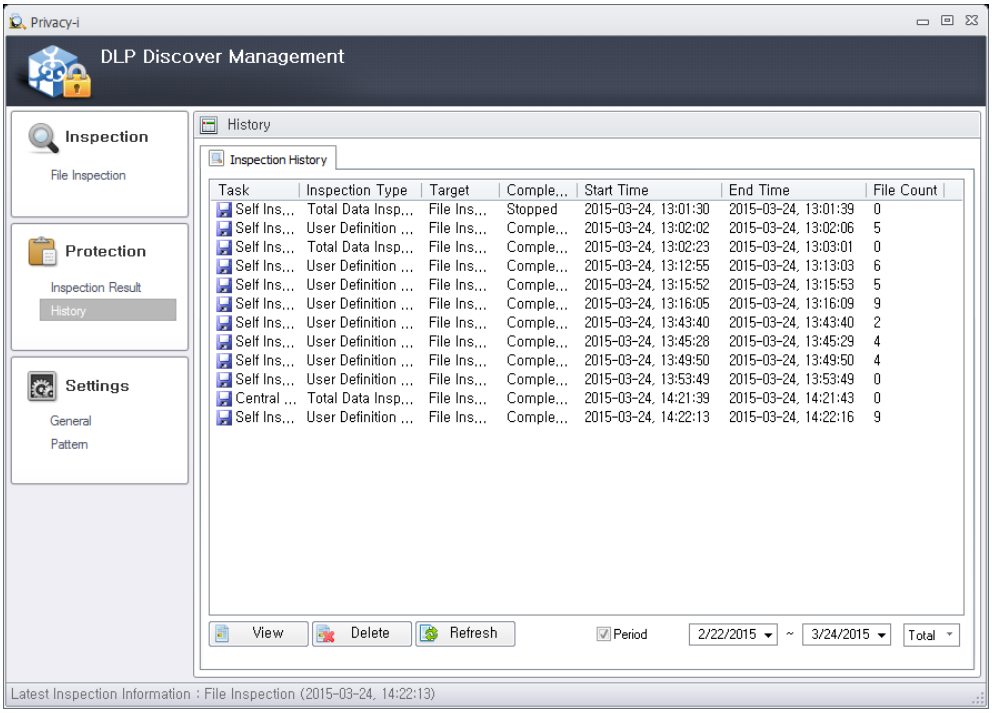
Privacy-i
DLP Discover Management
Inspection
File Inspection
Protection
Inspection Result
History
Settings
General
Pattern
History
Inspection History
Task
Inspection Type
Target
Comple...
Start Time
End Time
File Count
Self Ins... Total Data Insp... File Ins... Stopped 2015-03-24, 13:01:30 2015-03-24, 13:01:39 0
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:02:02 2015-03-24, 13:02:06 5
Self Ins... Total Data Insp... File Ins... Comple... 2015-03-24, 13:02:23 2015-03-24, 13:03:01 0
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:12:55 2015-03-24, 13:13:03 6
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:15:52 2015-03-24, 13:15:53 5
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:16:05 2015-03-24, 13:16:09 9
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:43:40 2015-03-24, 13:43:40 2
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:45:28 2015-03-24, 13:45:29 4
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:49:50 2015-03-24, 13:49:50 4
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 13:53:49 2015-03-24, 13:53:49 0
Central ... Total Data Insp... File Ins... Comple... 2015-03-24, 14:21:39 2015-03-24, 14:21:43 0
Self Ins... User Definition ... File Ins... Comple... 2015-03-24, 14:22:13 2015-03-24, 14:22:16 9
View
Delete
Refresh
Period
2/22/2015
~
3/24/2015
Total
Latest Inspection Information : File Inspection (2015-03-24, 14:22:13)

(Figure 5-14) View Inspection History

The Inspection Log records the results that were found through Diagnosis by Privacy-i Agent User and the Diagnosis by Admin. Inspection Log List shows Inspection Range, Inspection Type, Time Started, Time Finished and Number of Detected Files.

[Table 5-3] "View Inspection Log" Menu Details

Function	Description
View	Shows a detailed Detection History of the viewed log.
Delete	Deletes the viewed log. (Disabled by default)
Refresh	Refreshes and updates the viewed log.
Period	Sets the period and shows the log.

6. Inspection Option Settings

Helps configure preferences on a PC with Privacy-i Agent installed. In the Inspection Option

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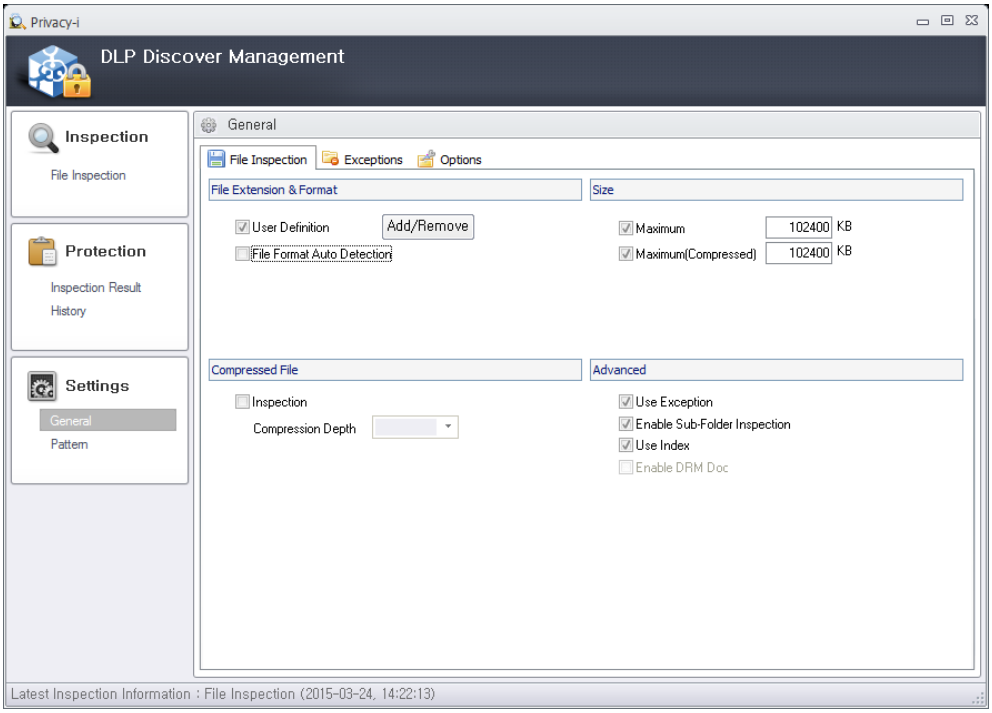
Settings, the Inspection Target, Inspection Pattern and Schedule Inspection menus can be used to set the preferences of a user PC.

6.1 Inspection Target

6.1.1 File Inspection

Under the General, the File Inspection tab provides 4 categories including File Extention & Format, File Size, Compressed File Inspection and Advanced Settings.



(Figure 6-1) File Inspection Tab

[Table 6-1] organizes the information in detail.

[Table 6-1] File Inspection Settings

Category	Attribute	Description
File Extention & Format	User Definition	Inspects only file extensions that the user has registered
	File Format Auto Detection	Searches the content of all files in a PC
Size	Maximum	Limits the regular file size to search
	Maximum(Compressed)	Limits the compressed file size to search
Compressed	Inspection	Specifies whether to inspect the

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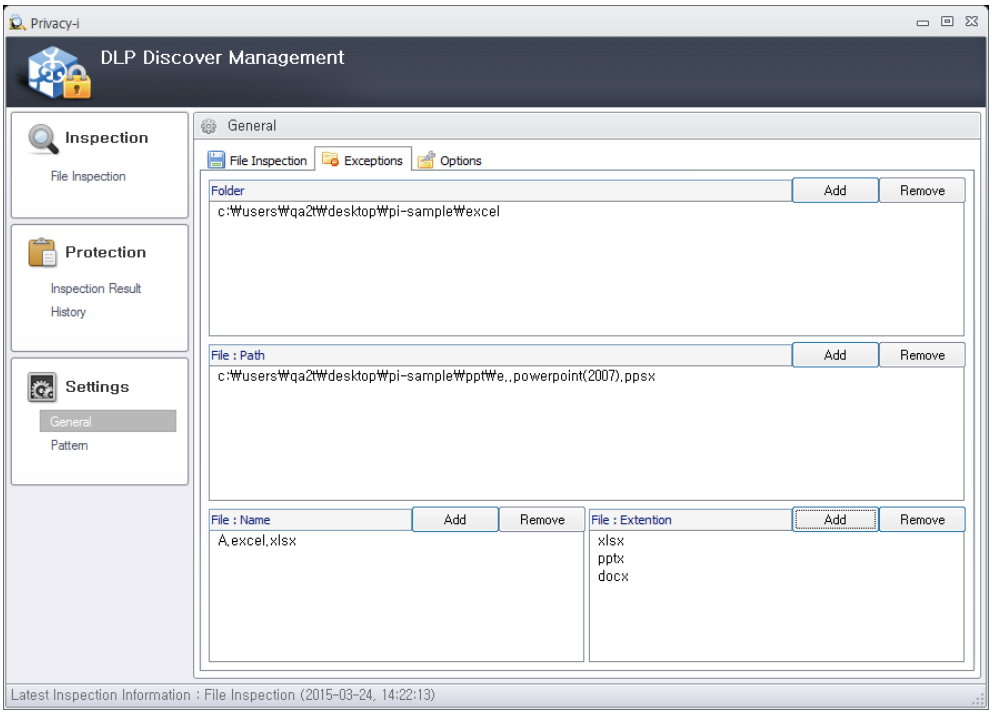
File		compressed file or not
	Compression Depth	Sets multi-stage compression (1~5, no limit)
Advanced	Use Exception	Applies Inspection Exclusion Settings
	Enable Sub-folder Inspection	Inspects a subfolder of the specified folder
	Use Inbox	Supports Quick Search function when viewing file search results by indexing them
	Enable DRM Doc	Inspects document(s) encrypted with DRM

6.1.2 Exceptions

Through the Exceptions, the Specific Folder Path, File Path/ Name and File Extension during file inspection can be excluded.



(Figure 6-4) Inspection Exclusion Tab

[Table 6-2] Inspection Exclusion Setting Attributes

Category	Attribute	Description
Exceptions	Folder	Adds/ Deletes a folder to exclude from file inspection

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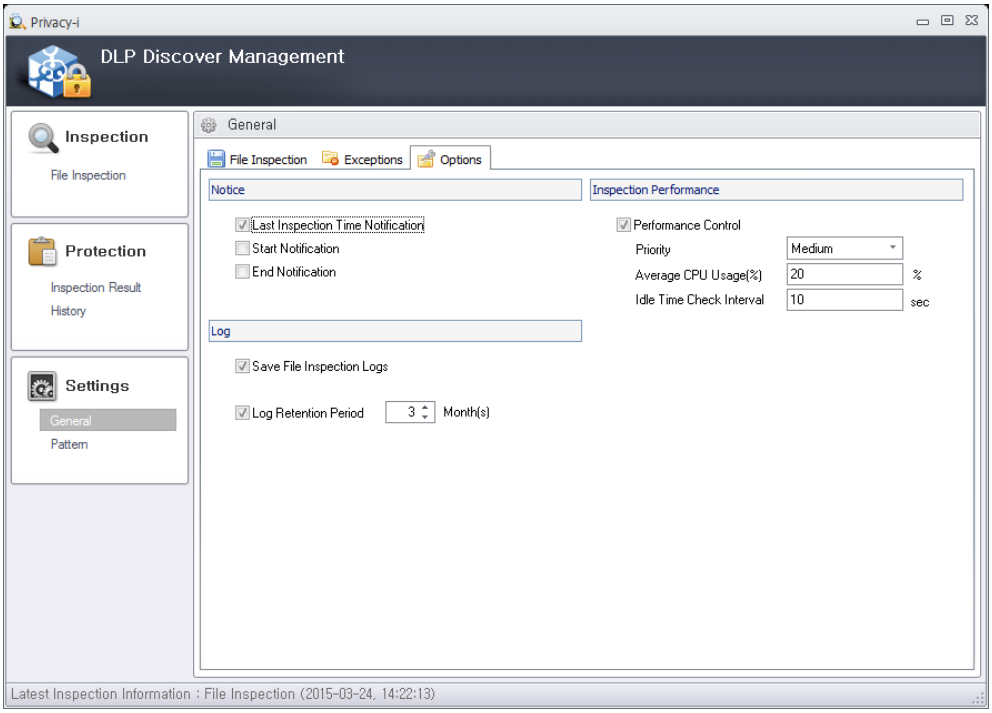
	File : Path	Adds/ Deletes the full path of a file to exclude from file inspection
	File : Name	Adds/ Deletes a file name to exclude from file inspection
	File : Extension	Adds/ Deletes the extension of a file to exclude from file inspection

6.1.3 Options

In Options, preferences for Notice, Log and Inspection Performance can be set.



(Figure 6-5) Other Settings Tab

[Table 6-3] Other Settings Attributes

Category	Attribute	Description
Notice	Last Inspection Time Notification	Shows the notification message of the last inspection time at the bottom right when logging into Privacy-i
	Start Notification	Shows the starting notification message at the bottom right when running the

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		scheduled inspection task
	End Notification	Shows the finishing notification message at the bottom right when the scheduled inspection task is completed
Log	Saving File Inspection Logs	The View Inspection Results screen displays the log during file inspection
	Log Retention Period	Stores the created log for a specified period of time. Automatically deletes the log when the period expires.
Inspection Performance	Performance Control	Checks whether to use the Inspection Speed Control or not
	Priority	Specifies the priority for CPU utilization upon file inspection
	Average CPU Usage(%)	Specifies average CPU Allocation
	Idle Time Check Interval	Specifies the Idle Time Check Interval.

6.2 Inspection Pattern

In the Inspection Pattern, the pattern to use during the inspection process can be set. The Pattern Setting Method can be categorized into Contents Settings and Attribute-based Settings.

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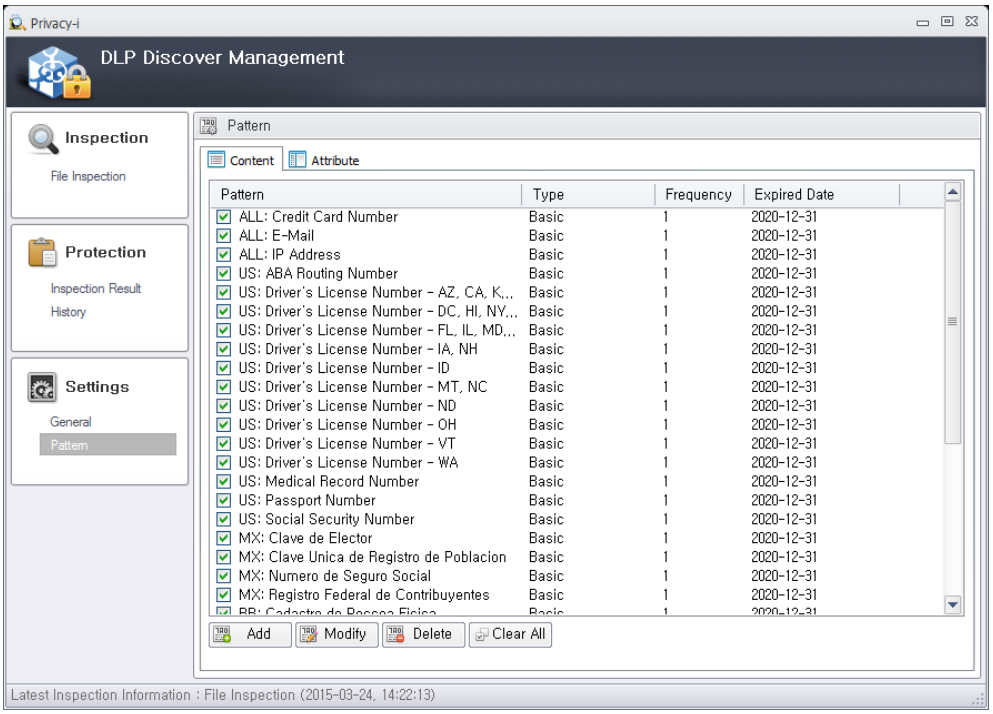
Privacy-i
DLP Discover Management
Inspection
File Inspection
Protection
Inspection Result
History
Settings
General
Pattern
Pattern
Content
Attribute
Pattern
Type
Frequency
Expired Date
ALL: Credit Card Number Basic 1 2020-12-31
ALL: E-Mail Basic 1 2020-12-31
ALL: IP Address Basic 1 2020-12-31
US: ABA Routing Number Basic 1 2020-12-31
US: Driver's License Number - AZ, CA, K... Basic 1 2020-12-31
US: Driver's License Number - DC, HI, NY,.. Basic 1 2020-12-31
US: Driver's License Number - FL, IL, MD,.. Basic 1 2020-12-31
US: Driver's License Number - IA, NH Basic 1 2020-12-31
US: Driver's License Number - ID Basic 1 2020-12-31
US: Driver's License Number - MT, NC Basic 1 2020-12-31
US: Driver's License Number - ND Basic 1 2020-12-31
US: Driver's License Number - OH Basic 1 2020-12-31
US: Driver's License Number - VT Basic 1 2020-12-31
US: Driver's License Number - WA Basic 1 2020-12-31
US: Medical Record Number Basic 1 2020-12-31
US: Passport Number Basic 1 2020-12-31
US: Social Security Number Basic 1 2020-12-31
MX: Clave de Elector Basic 1 2020-12-31
MX: Clave Unica de Registro de Poblacion Basic 1 2020-12-31
MX: Numero de Seguro Social Basic 1 2020-12-31
MX: Registro Federal de Contribuyentes Basic 1 2020-12-31
Add
Modify
Delete
Clear All
Latest Inspection Information : File Inspection (2015-03-24, 14:22:13)

(Figure 6-6) Inspection Pattern Tab

6.2.1 Contents Settings

Through the Contents Settings, data can be detected by using the Basic Pattern upon Data Detection, and inspected by adding the User Defined Pattern. The User Defined Pattern can be added/ modified/ deleted.

➢ Pattern List

This includes the Basic Pattern (social security number, alien registration number, driver's license number, passport, account number, credit card number, cell phone number, phone number, E-mail address, IP address, corporate registration number, company registration number, health insurance card number) and the User Defined Pattern.

➢ Adding

The User Defined Pattern can be added and defined. [Table 6-5] below shows the detailed settings for adding a User Defined Pattern.

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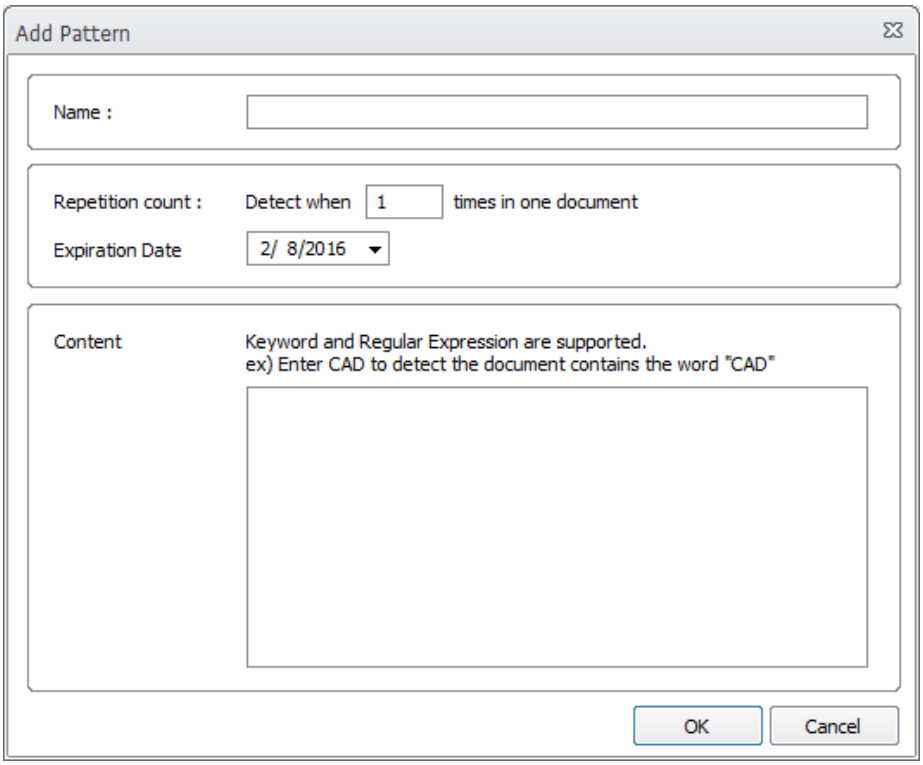

(Figure 6-7) Adding a User Defined Pattern

[Table 6-4] User Defined Pattern Settings Details

Category	Attribute	Description
Adding a Pattern (Contents)	Name	Sets the name of the pattern to be defined.
	Repetition count	Sets the repeat number of the pattern to be defined.
	Expiration Date	Sets the expiration date of the pattern to be defined.
	Content	Defines the pattern in general keyword content to detect or a regular expression method

➢ Editing

Basic Pattern and User Defined Added Pattern can be edited. Editing the Basic Pattern allows a user to modify the repeat number and pattern expiration date. Editing the User Defined Added Pattern is shown in [Table 6-5].

➢ Deleting

The User Defined Pattern can be deleted. (The Basic Pattern cannot be deleted.)

➢ Clear All /Select All

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All patterns can be selected/ deselected.

6.2.2 Attribute-based Settings

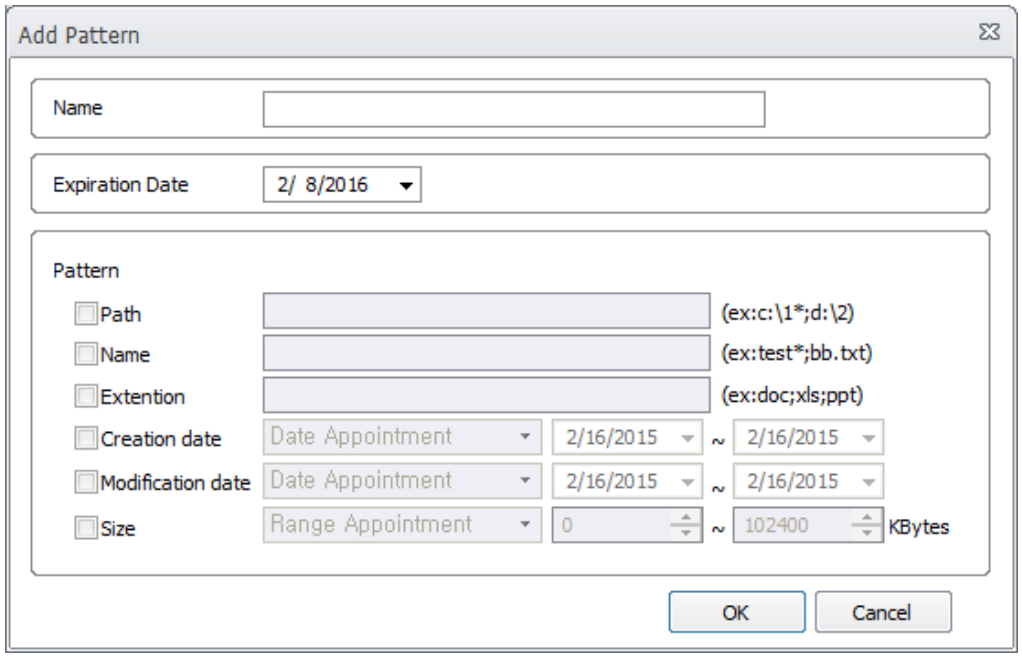
In the Attribute-based Settings, there is a function to detect files based on their Pattern Attribute. Files can be detected through the File Path, File Name, Extension, Date Created and Size Settings.

➢ Pattern List

Displays the Attribute-based Patterns list.

➢ Adding

The Attribute-based Pattern can be added. [Table 6-6] shows the detailed settings for adding an Attribute-based Pattern.



(Figure 6-8) Adding Attribute Patterns

[Table 6-5] Details of Adding an Attribute-based Pattern

Category	Attribute	Description
Adding Pattern (Attribute-	Name	Sets the name of pattern to be defined.
	Expiration Date	Sets the expiration date of the pattern to be defined

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based)	Pattern Content	Path	Sets the file path of the pattern to be defined. Ex.) c:₩1*, d:₩2
		Name	Sets the file name of the pattern to be defined. Ex.) test*.bb.txt
		Extension	Sets the file extension of the pattern to be defined. Ex.) doc.xlsx.ppt
		Creation Date	Sets the file creation date of the pattern to be defined.
		Size	Sets the file size of the pattern to be defined by specifying range, or minimum size and maximum size.

➢ Editing / Deleting

Edit / Delete the Attribute-based Pattern.

➢ Clear All / Select All

All patterns can be selected/ deselected.

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